

PUBLIC NOTICE

PERMIT APPLICATION: NRS 07.110

APPLICANT: Teddy Adams
1002 Somerset Downs Blvd.
Suite 500
Hendersonville, Tenn. 37075
615-826-7797

LOCATION: Unnamed tributary to Drakes Creek, Somerset Downs, between Somerset Downs Boulevard and Hollows Court, Hendersonville, Sumner County 36.3765 °N, 86.6012 °W

WATERSHED DESCRIPTION: The tributary to Drakes Creek is located in the Lower Cumberland-Old Hickory watershed (HUC 05130201) and is not assessed for its support of its designated uses. The designated uses for this stream are fish and aquatic life, irrigation, livestock watering and wildlife, and recreation. Drakes Creek is assessed as fully supporting its fish and aquatic life use. The unnamed tributary originates at a spring source, flows into a small pond, loses channel definition, enters an area where it was relocated and concrete lined, and then regains channel definition and flows through another small impounded area. The stream has variable amount of riparian canopy, from none to mature trees, and has intermittent flow for the majority of its length across the project site. Color photos of this stream are available on the Internet version of this notice at <http://www.state.tn.us/environment/wpc/ppo/arap>. The surrounding watershed is rural with increasing residential development.

PROJECT DESCRIPTION: The applicant proposes to impact and modify approximately 1850 linear feet of stream for the purpose of residential development and stream repair. The project site is part of a 105-lot residential development. The alterations to the stream include encapsulation and relocation with mitigation measures of stream restoration and buffer enhancement.

The spring source will be captured in a spring box, and the first 472 linear feet of stream will be placed in a 83-foot 10 inch corrugated metal pipe for a road crossing, then 260 linear feet will be relocated and transitioned into 86.5 feet of 36-inch reinforced concrete pipe for a second road crossing. This will result in a loss of 42.5 linear feet of stream. The next 261 linear feet will be enhanced with tree plantings mainly on the right side, but no channel modifications. The stream will enter 22 feet of encapsulation that will divert high flows off to a stormwater detention facility. Base flows will continue down stream. The next 288 linear feet will be enhanced with riparian plantings and then transition into the stream replacement/relocation. This 360 linear feet of channel will replace the highly damaged stream segment off-site. The channel will be built to the appropriate dimensions and have an average 50-foot wide riparian buffer. The final length of existing stream (approximately 450 linear feet) will have no channel modifications, but have riparian zone enhancement.

Proposed mitigation for the stream loss (42.5 feet of length in the upper section and 22 linear feet for the stormwater diversion culvert) is the riparian enhancement of approximately 1,000 feet of the existing stream and the construction of the 360 linear feet of replacement channel.

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed activity will not result in degradation to water quality.

USGS TOPOGRAPHIC QUADRANGLE: Cottontown Quad 310 NE

PERMIT COORDINATOR: Juliana W. Kyzar

No decision has been made whether to issue or deny this permit. The purpose of this notice is to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced.

Interested persons may also request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing.

The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address for review and/or copying. The department's address is:

Tennessee Department of Environment & Conservation
Division of Water Pollution Control, Natural Resources Section
7th Floor L & C Annex
401 Church Street
Nashville, TN 37243

In deciding whether to issue or deny a permit, the department will consider all comments on record and the requirements of applicable federal and state laws.

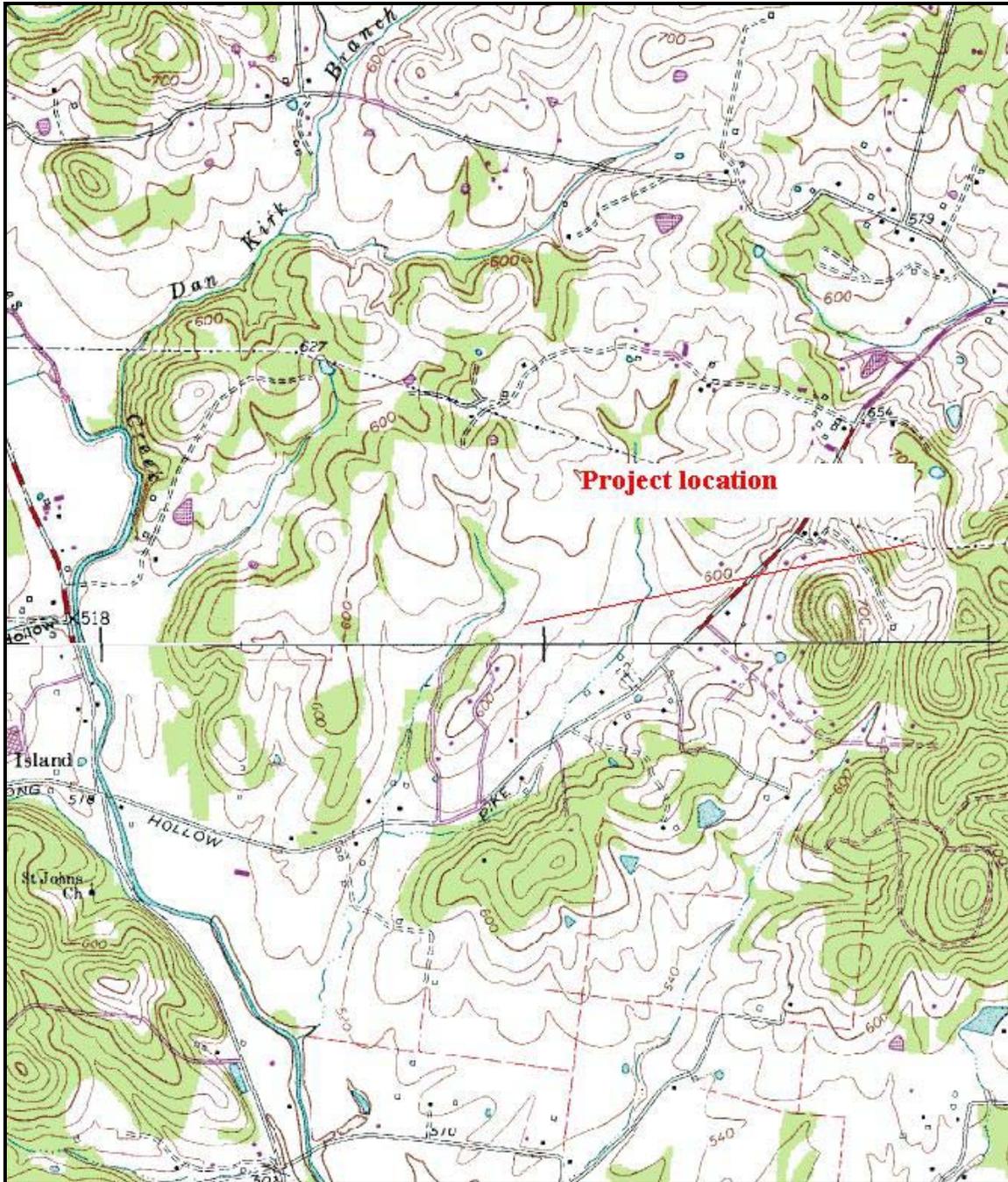


Figure 1: USGS topographic map showing project location

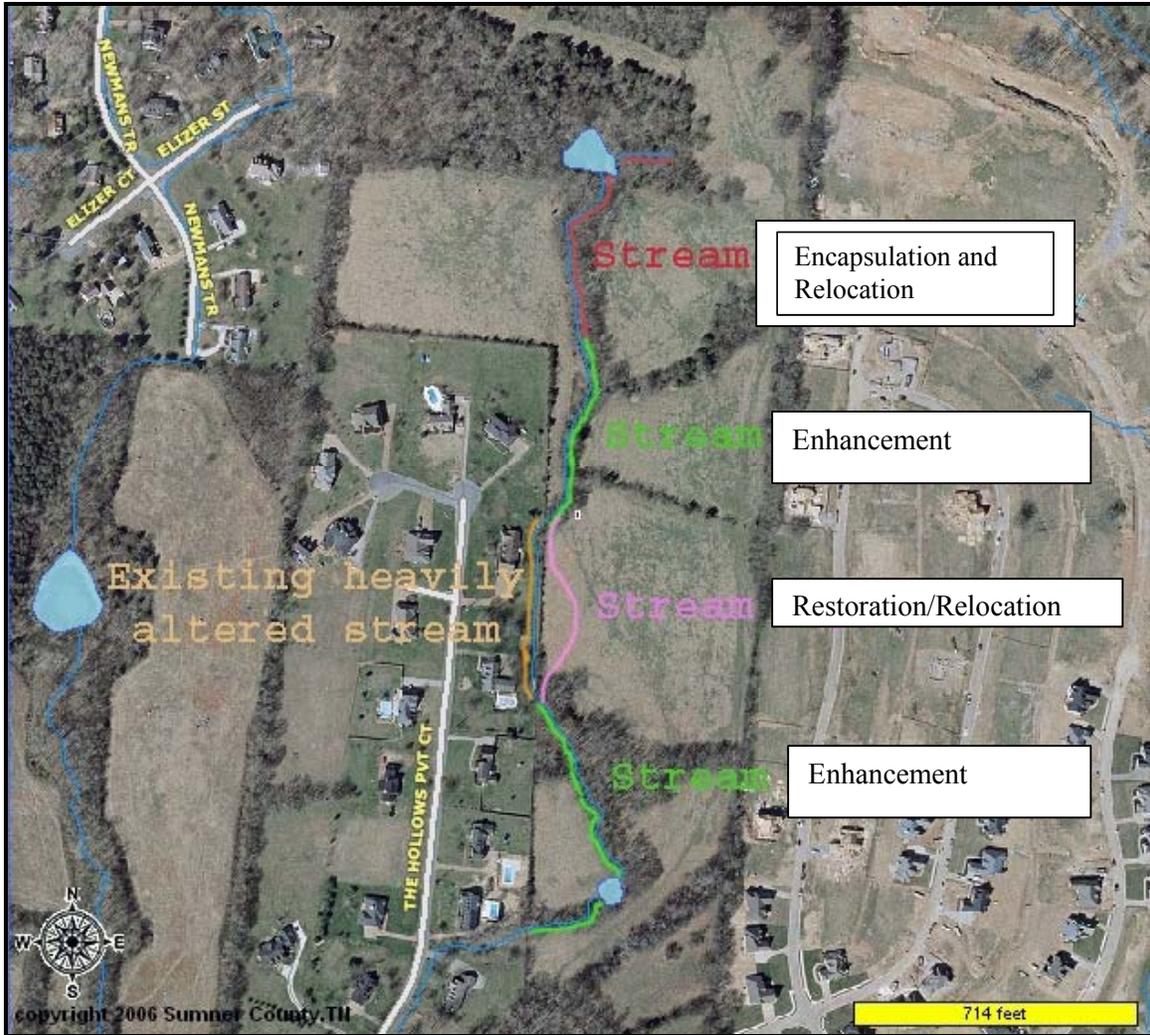


Figure 2: Showing existing stream with brief description of general activities



Photo 1: Existing pond at the headwaters of the stream/spring source. Photo by Ragan-Smith 12/06



Photo 2: Middle section of channel, looking up into the section proposed for enhancement. Photo by Ragan-Smith 12/06



Photo 3: Middle section of stream that is heavily altered. Photo by Ragan-Smith 12/06

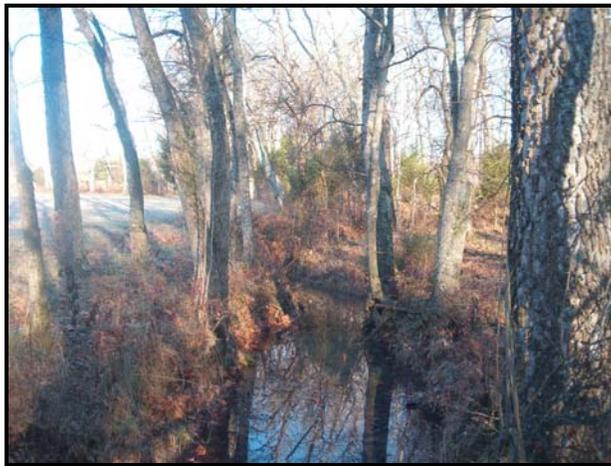


Photo 4: Downstream section proposed for additional buffer enhancement. Photo by Ragan-Smith 12/06.



Photo 5: At downstream end of property, looking upstream. Photo by Ragan-Smith 12/06



Figure 3: Site grading plan (Phase 6) showing the first section of alterations, the spring box, 83' culvert, and transition into the 260' of relocated stream.

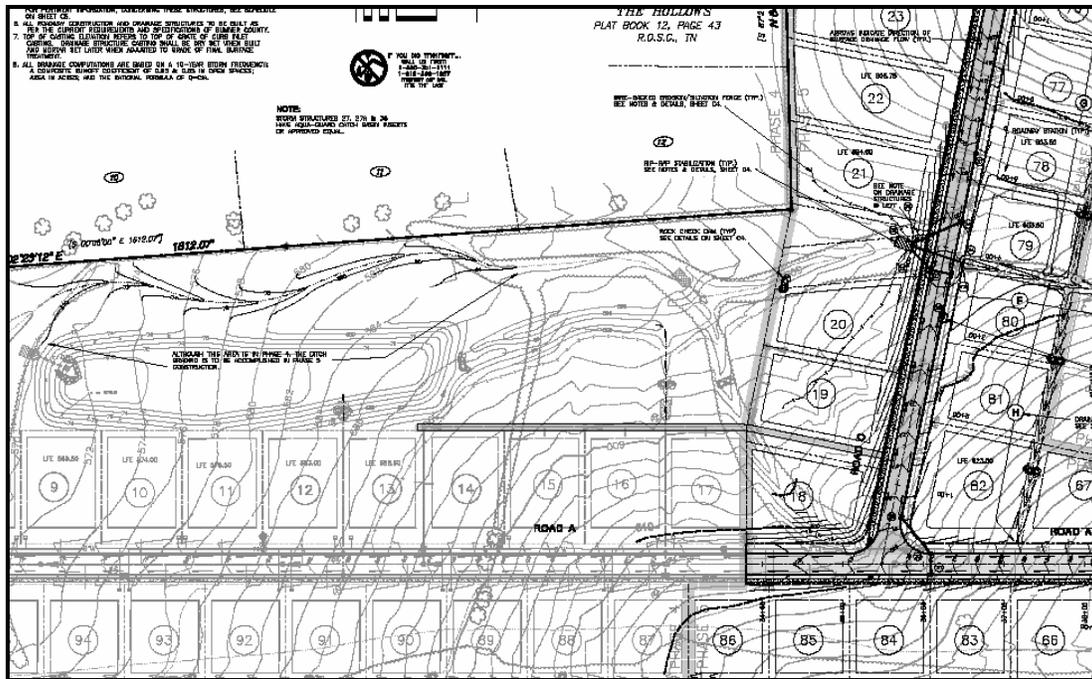


Figure 4: Site grading plan (phase 5) showing the middle portion of the alterations including the 86.5' culvert for road crossing, 261' of planting area, 22' of encapsulation for the storm flow separator, and the 360 linear feet of stream restoration.

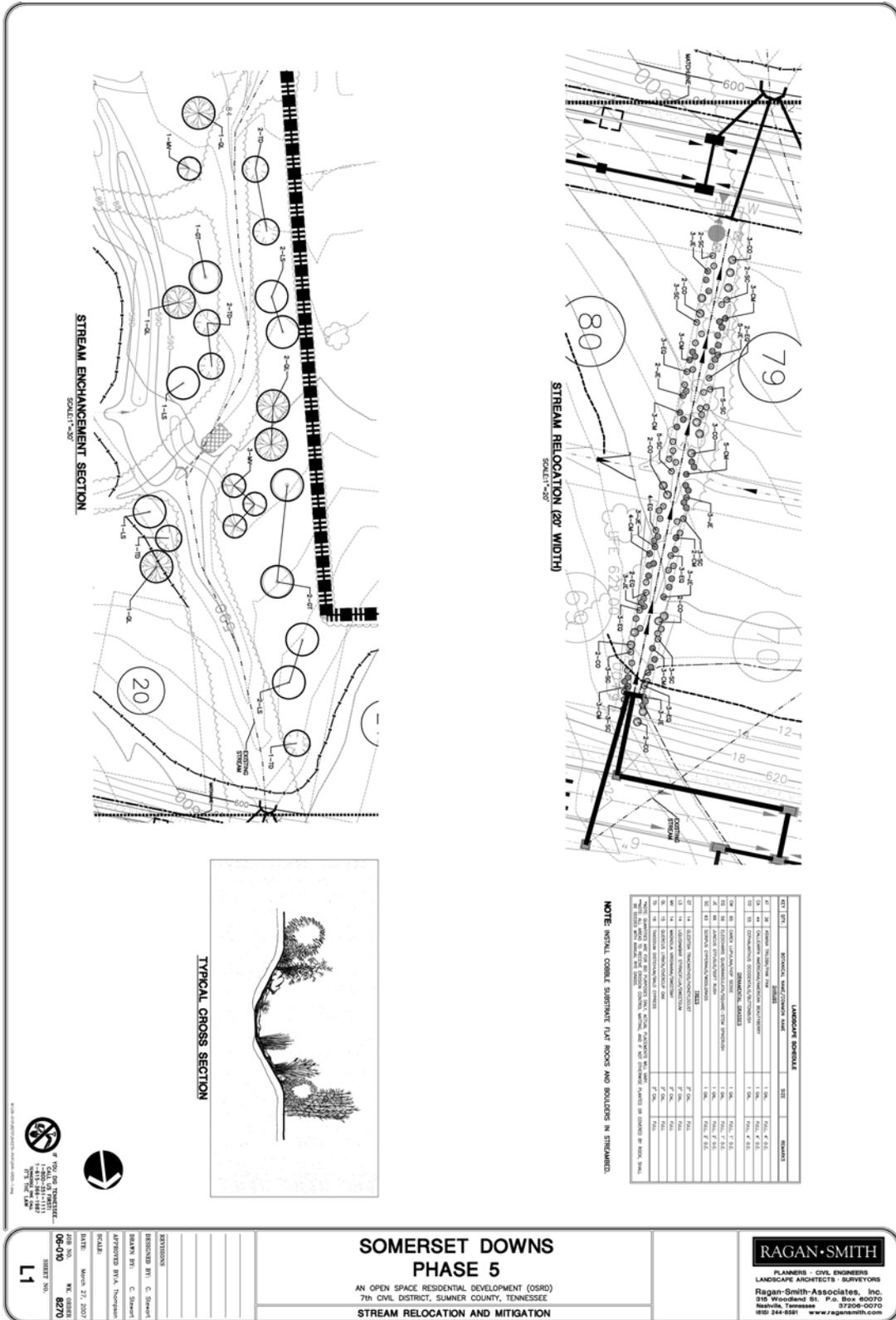


Figure 5: Showing final plan for upper section of stream alterations and planting scheme



Figure 6: Showing lower portions of stream alterations and planting scheme